

EXPLANATION OF PLATE XIV.

MIMICRY IN MASHONALAND BUTTERFLIES.

Acræine and Lycænid mimics of *Limnas chrysippus*. Incipient mimicry of Acræas by *Lycænida* and *Hesperida*.

All the figures are about $\frac{1}{10}$ of the natural size.

All the specimens figured on this plate were captured by Guy A. K. Marshall in Mashonaland.

FIG. 1. *Limnas chrysippus* ♀, April 9, 1899. Captured together with the specimens represented in Figs. 1a, 2, and 2a at Salisbury (5000 feet). The specimen is rather small; the ground-colour is of the dark-brown shade characteristic of the Ethiopian Region.

- 1a. *L. chrysippus*, under-side ♂. The peculiar shade of the apex of the fore-wing beyond the sub-apical white bar much resembles the ground-colour of the hind-wing, but is distinguished from it by a faint greenish-orange tinge. It is seen to be mimicked in the under-side of *Mimacraa marshalli* (Fig. 2a), and less perfectly in that of *Acræa encedon* (Fig. 3a).
2. *Mimacraa marshalli* ♂. A beautiful mimic of *chrysippus* (compare Fig. 1). The shape of the sub-apical white bar however more strongly suggests that of *Acræa encedon* (Fig. 3).
- 2a. *M. marshalli*, under-side ♂. The spots at the base of the hind-wing as well as the shape of the sub-apical bar suggest *encedon* rather than *chrysippus* (compare Fig. 3a), although the mimicry of the latter is strong and evident.
3. *Acræa encedon* ♂, Dec. 1900. Captured together with the specimens represented in Figs. 3a, 4, 6, and 7 at Umtali (3700 feet). This, the typical form of the species, is seen to be synaposematic with *chrysippus*.
- 3a. *A. encedon*, under-side ♂. The under-side is seen to be synaposematic as well as the upper.
4. *Catochrysops peculiaris*, under-side ♂. The figure well shows incipient mimicry of the black-spotted under-side of an *Acræa*.
5. *C. mashuna*, under-side ♀, Nov. 7, 1897. Captured at the Umcheki River (4200 feet). The resemblance to an *Acræa* is closer in this species than in the

last, because of the pale tawny ground-colour of the under-side.

- FIG. 6. *Abantis tettensis*, under-side. The under-side of the hind-wings shows strong mimicry of an *Acræoid* type.
7. *Kedestes macomo*, var., under-side. The under-side generally shows the incipient mimicry of an *Acræoid* type.

EXPLANATION OF PLATE XV.

BRITISH EAST AFRICAN BUTTERFLIES MIMICKING *L. CHRYSIPPUS*.

Acræine and Lycaenid mimics of *Limnas chrysippus* form *klugii* in British East Africa. Varieties of *Acræa encedon* chiefly transitional towards the form *daira*.

All the figures are about $\frac{3}{16}$ of the natural size.

- FIG. 1. *Limnas chrysippus*, form *klugii* ♂, May 22, 1900. Captured by Mr. and Mrs. S. L. Hinde, at Machakos Road, British East Africa (about 5400 feet). Very faint traces of the sub-apical white band of *chrysippus* can be detected.
- 1a. *L. chrysippus*, form *klugii*, under-side ♀, Oct., Nov. 1900. Collected by W. Doherty on the Kikuyu Escarpment, British East Africa (6500 to 9000 feet). Distinct traces of the sub-apical white band of *chrysippus* can be seen. Compare Fig. 1a, Plate XIV.
2. *Mimacræa dohertyi* ♀, Oct., Nov. 1900. Collected in the same locality as Fig. 1a, by W. Doherty. The position and outline of the costal part of the sub-apical white bar of *M. marshalli* can be distinctly traced in the contour of the black markings, although the bar itself is only very faintly paler than the fulvous ground-colour of the wing. Compare Fig. 2, Plate XIV.
- 2a. *M. dohertyi*, under-side ♂, Oct., Nov. 1900. Collected in the same locality as Fig. 1a, by W. Doherty. Traces of position of white bar as in upper-side; compare Fig 2a, Plate XIV. The black spots on the under-side of the under-wing resemble *Acræa encedon* (Fig. 3a) rather than the Danaine model of both insects (Fig. 1a).
3. *Acræa encedon*, form *daira* ♂, June 6, 1900. Captured by Mr. and Mrs. S. L. Hinde, at Machakos, British East Africa (about 5400 feet). Faint traces of the sub-apical